

KORZINNIKOVA, A.I.; SHEPETOV, M.F., kand.med.nauk

Some forms of health education and their connection with the
movement for health information in the Yakut A.S.S.R. Zdrav.
Ros.Feder. 3 no.9:16-20 S '59. (MIRA 12:11)

(YAKUTIA--HEALTH EDUCATION)

ANDREYEV, Ye.N., kand.med.nauk; SHEPETOV, M.F., kand.med.nauk

Current state of antituberculosis aid in the Yakutsk A.S.S.R. Sov.med.
23 no.8:127-132 Ag '59. (MIRA 12:12)

1. Iz Yakutskogo filiala (dir. Ye.N. Andreyev) Instituta tuberkuleza
Akademii meditsinskikh nauk SSSR.
(TUBERCULOSIS prev. & control)

S/194/62/000/005/079/157
D222/D309

AUTHOR: Shepetov, V.N.

TITLE: Standardization and normalization of ultrasound apparatus

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-5-34 t (V sb. Prom. primeneniye ul'trazvuka. Kuybyshevsk. aviats. in-t. Kuybyshev, 1961, 5-13)

TEXT: In the GOST project for the standardization and normalization of ultrasound apparatus it is recommended that, in accordance with GOST, a series of preferred input power levels for ultrasound generators in the range 0.04 - 250 kW should be established for the following frequencies: 20, 40, 200, 400, 800 and 1600 kc/s; these numbers also forming a GOST series. The recommended generator power is tabulated according to the frequency. [Abstractor's note: Complete translation].

Card 1/1

YABLONSKIY, D.N., kand.arkhitektury; SHEPETOVA, I.M., arkhitektor;
MEDVEDEV, M.I., inzh.

Numerical foundation of a series of derivative moduli. Izv.
ASIA 4 no.2:77-81 '62. (MIRA 15:9)
(Modular coordination (Architecture))

SHEPETOVSKAYA, I. P.

SHEPETOVSKAYA, I. P.: "Class work associated with the teaching-learning process in the ancient-history course in the fifth and sixth classes of secondary school". Moscow, 1955. Min Education RSFSR. Moscow City Pedagogical Inst imeni V. P. Potemkin, Chair of History Methodology and the USSR Constitution.
(Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

ACCESSION NR: AR4041592

S/0137/64/000/005/D037/D037

SOURCE: Ref. zh. Metallurgiya, Abs. 5D220

AUTHOR: Kovalevskiy, N. G.; Yushkevich, P. M.; Shepetovskiy, A. Ya.

TITLE: Cold processing and heat treatment of pipes of steel SN2 (EI904)

CITED SOURCE: Sb. Proiz-vo trub. Vy* p. 10. M., Metallurgizdat, 1963, 50-57

TOPIC TAGS: cold processing, heat treatment, steel pipe/SN2 steel

TRANSLATION: Investigation was conducted on billet shells with dimensions 41 by 3.5 by (1100 - 1200) mm, obtained by hot pressing of steel of grade SN2 (0.05-0.06% C, 0.28-0.31% Mn, 0.42% Si, 7.9-8.1% Ni, 16-16.1% Cr, 1.06-1.12% Al, traces of Ti). Results of mechanical tests of steel samples SN2 after normalization, the course and technological parameters cold rolling and drawing of steel pipes SN2 are listed. It was determined that cold rolling and drawing of steel pipes SN2 can be carried out normally with deformations close to

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deformations allowed during rolling and drawing of steel 1Kh18N10T. Heat treatment of steel SN2 should be conducted at 1100° and holding for 5 minutes with cooling in air. In process of cold rolling and drawing of pipes of steel SN2 martensite of deformation will be formed, which strengthens metal in addition to strengthening caused by crushing of substructure of austenitic matrix.

SUB CODE: MM

ENCL: 00

Card 2/2

ACCESSION NR: AR4041539

S/0137/64/000/004/DO44/DO44

SOURCE: Ref. zh. Metallurgiya, Abs. 4D259

AUTHOR: Yushkevich, P. M.; Kovalevskiy, N. G.; Shepetovskiy, A. Ya.

TITLE: Phase hardening of stainless steel EI904 (1Kh15N9Yu) during cold drawing and rolling

CITED SOURCE: Sb. Proiz-vo trub. Vy*p. 11. M., Metallurgizdat, 1963, 100-103

TOPIC TAGS: Phase hardening, cold drawing, cold rolling, stainless steel/
EI904 steel

TRANSLATION: For study of hardening of steel EI904 from a forged rod there was prepared shells of dimension 27 x 2.5 x 300 millimeters with turned external and reamed internal surfaces. Shells were rolled on a laboratory two-high mill 200 in rollers with variable section of stream (principle of pilger rolling) on a conical mandrel. The initial billet in experiments of drawing was a pipe of dimension 20 x 1.25 millimeters, obtained from a shell by cold rolling. All shells and pipe before cold deformation were subjected to normalization at 1100° with holding

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ACCESSION NR: AR4041539

for 10 minutes. After normalization these shells were subjected to etching in a solution of hydrofluoric acid; then before cold rolling their surface was coated with oxalate. In process of investigation they studied influence of degree of cold deformation by rolling and drawing (from 5 to 70%) on mechanical properties of pipes, where it was, planned to conduct deformation of pipes by mandrel-less drawing within 5-40%, and cold rolling—within 30-70%. During drawing the following degrees of deformation were obtained: 5, 10, 15, 20, 30 and 37%, during rolling—32, 40, 43, 45, 58, 52, 58 and 68%. With increase of degree of deformation of rolling >30-40% there is observed gradual increase of σ_s ; with deformation of 68% it attains 145-152 kilograms per square millimeter. σ_s here remains approximately on the same level (125-130 kilograms per square millimeter), and δ decreases from 13 to 5%. Increase of degree of hardening of the metal after tempering and deformation is more than 10%, caused by the fact that steel EI904 consists mainly of unstable martensite of deformation, which during tempering endures precipitation hardening. This is confirmed by decrease of period of the crystal lattice of martensite during tempering up to 500° from 2.864 to 2.855 Å. Tempering of cold-rolled pipes at 400° leads also to insignificant change of mechanical properties. σ_s in this case increases by 10 kg/mm², δ by 3-4%, and

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δ decreases by 1-4%. The basic difference of influence of tempering on mechanical properties of cold-rolled and cold-drawn pipes is the fact that in cold-rolled pipes after tempering δ decreases, and in cold-drawn it increases. This once again confirms opinion that the character of deformation (drawing and rolling) essentially affects mechanical properties of pipes, and to a significant extent this influence is hereditarily transmitted to steel in the process of tempering.

SUB CODE: MM

ENCL: 00

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L 41361-65 EWP(k)/EWP(z)/EWA(c)/EWT(d)/EWT(h)/EWP(h)/EWP(b)/T/EWA(d)/EWP(l)/EWP(w)/
Pf-4 UJW/JC/HW

ACCESSION NR: AR5000589 S/0137/64/000/008/I039/I040 31

SOURCE: Ref. zh. Metallurgiya. Sv. t., Abs. 8D230 33
B

AUTHOR: Shepurko, M. I.; Kovalevskiy, N. G.; Yushkevich, P. M.;
Vendlovod, V. K.; Shepetovskiy, A. Ya.

TITLE: Production of pipes from high strength stainless steel 14

44-51

CITED SOURCE: Sb. Proiz-vo trub, vyp. 12. M., Metallurgiya, 1964,
44-51

TOPIC TAGS: pipe, stainless steel, metal ductility, drawing,
steel Kh17N5M3, steel Kh18N10T

TRANSLATION: To determine the ductility of steel Kh17N5M3, samples were subjected to hot torsion and piercing tests according to the method of the Ukrainian Pipe Research Institute. The torsion tests were carried out at 975-1225°, the piercing tests at 950-1250°, with a shrinkage of 1.6-15.5%. The data obtained show that the steel investigated has the highest ductility in the interval 1150-1250°.

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ACCESSION NR: AR5000589

Comparison of test results for hot torsion of steel Kh17N5M3 and steel Kh18N10T, which is widely used in pipe production, show that the former is characterized by a considerable lower ductility than the latter, and that the former is consequently related to the low ductility difficult drilling steels. It was established by an investigation of the microstructure of steel Kh17N5M3 under different heating conditions (from 1000° to 1350°) that the quantity of ferrite in the steel increases starting with 1200° but that grain boundary sliding takes place only at 1340-1350°. Pipes with dimensions 20 x 12, 12 x 12, and 12 x 1 mm made of Kh17N5M3 were prepared by hot pressing of tubular billets on a vertical hydraulic 600 ton press with subsequent rolling on cold rolling mills (KhPT-75 and KhPTR-15-30) and drawing on drawing mills. To reduce cold hardening of the metal after pressing, conditions for normalizing were worked out. A mixture of castor oil (70%) and talc (30%) was used as a lubricant in rolling on mill KhPT-75 and castor oil was used for rolling mill KhPTR-15-30. Rolling of pipes with dimensions 25 x 2.5 mm proceeded in a satisfactory manner. An attempt to roll pipes with dimensions 25 x 2 mm, that is, with a higher degree of deformation (86%), was not crowned with success since the mandrel failed because of the

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ACCESSION NR: AR5000589

considerable increase in the load on the working instrument. To alter pipes with dimensions of 23 x 1.95 mm and 20 x 1.45 mm, parts were rolled into pipes with finished dimensions of 20 x 1.5 and 18 x 1 mm. To decrease bonding, the drawing was done through two draw plates at the same time. The diameter of the intermediate draw plate used in drawing full size pipes with dimensions 18 x 0.98 was 16 mm, but in drawing from dimensions 14.5 x 0.98 mm to finished dimensions of 12 x 1 it was 13 mm. During this process pipes with dimensions of 14.5 x 0.98 mm were not subjected to hot working before drawing. The lubricant for them was the oxalate film which they retained from the coating received before the first drawing. Cold rolling of such pipes is feasible with consecutive deformations up to 60%, but rolling is feasible with only a single deformation up to 30%. Heat treatment of full size pipes made of the steel under investigation should be carried out at 1100-1150° with air cooling. K. Ursova

SUB CODE: MM

ENCL: 00

cc
Card 3/3

SHAPOVALOV, N.A., inzh.; SHEPETUKHA, M.G., inzh.; DYMSHITS, M.A., inzh.;
SOLODKIY, Z.P., inzh.

Organizing the repair and modernization of industrial equipment
in the enterprises of the Ukrainian S.S.R. Mashnistroenie no.6:
5-8 N-D '64 (MIRA 18:2)

BUKHANTSEV, A.N., knad.tekhn.nauk; TISHCHENKO, V.V., inzh.; SHEPETUKHA, M.I.,
inzh.

Study of the operation of a boiler unit of the OPI-DIR system.
Izv. vys. ucheb. zav.; energ. 5 no.9:122-125 S '62. (MIRA 15:10)

1. Odesskiy politekhnicheskiy institut.
(Boilers)

PIYANKOV, V.A.; MAYOVER, N.D.; SHEPEL'YUKHA, N.S.

Solubility of cadmium oxide in solutions of potassium citrate
and oxalate. Ukr. khim. zhur. 30 no.10:1110-1111 '64.
(MIRA 17:11)
L. Lvovskiy politekhnicheskoy institut.

SHEPETUN, I. S.; ZARECHNOVA, A. F.

Boots and Shoes - Trade and Manufacture

Attaching soles with vinyl perchloride cement.

Leg. prom. 12, No. 4:36-37, April 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

SHEPETYA, V.A.

Training of mechanization specialists. Put' i put. khoz. 7
no.11:22 '63. (MIRA 16:12)

1. Glavnyy mekhanik Putevoy mashinnoy stantsii No.90, Yelgava,
Pribaltiyskoy dorogi.

MATORINA, N.N.; CHMUTOV, K.V.; SAFONOVA, N.D.; SHEPETYUK, L.V.

Kinetics of ion exchange processes in the presence of complex-forming reagents. Dokl. AN SSSR 152 no.4:915-918.0 '63.
(MIRA 16:11)

1. Institut fizicheskoy khimii AN SSSR. 2. Chlen-korrespondent AN SSSR (for Chmutov).

L 21331-65 EWT(m)/EWP(j) Pc-4 AFWL/AEDC(a)/SSD/AS(mp)-2/AFETR/ESD(gs)/
ESD(t) RM

ACCESSION NR: AP4044437

S/0076/64/038/008/1942/1949

AUTHOR: Matorina, N. N. (Moscow); Chautov, K. V. (Moscow); Safonova, N. D. (Moscow); Shepetynk, L. Y. B

TITLE: Effect of kinetic factors on the formation of diffuse zones in the complexation ion-exchange chromatography

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 8, 1964, 1942-1949

TOPIC TAGS: cationite, ion exchange, column chromatography, complexation, diffusion, cerium, europium

ABSTRACT: The article considers the results of the study of separation of rare earths by EDTA and citrate solutions. All studies were carried out at very small adsorption of rare earths on cation exchange resins (less than 1%). Columns were thermostatted to $\pm 1^\circ\text{C}$. Each column contained 2 g of cation exchanger KU-2 (8-10% divinylbenzene). The investigated rare earth elements Ce^{144} , Pr^{144} and Eu^{152} , 154 were adsorbed from 0.1 N HCl or HNO_3 solutions in a narrow layer of cationite in H-form in the upper part of the column. The sorbed rare

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ACCESSION NR: AP4044437

earths were eluted with complexing agent solutions at definite and constant pH values. The concentration of rare earth elements were determined radiometrically. It has been found that diffuse spreading of zones is due to gel and film kinetics. Complexation kinetics in the solution have no appreciable effect. The main reason for the difference in zone spreading during elution of rare earth elements with EDTA and H_3Cit is the difference in the rate of interdiffusion processes. The possibility is considered for using equations of Tumitskiy, Glueckauf and Bressler for the determination of the degree of spreading of zones. It has been shown that in order to compare the experimental and theoretical results, diffusion coefficients must be employed which are determined by an independent method under the same conditions of elution. Orig. art. has: 7 figures and 2 tables

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AN SSSR)

SUBMITTED: 20Jul63

ENCL: 00

SUB CODE: GC

NR REF SOV: 004

OTHER: 003

Cord 2/2

SHIBKOV, A.A., polkovnik meditsinskoy sluzhby; SHEPILEVICH, V.F.

Women physicians as guardians of the health of Soviet troops.
Voen.-med.zhur. no.3:7-9 Mr '61. (MIRA 14:7)
(MEDICINE, MILITARY) (WOMEN AS PHYSICIANS)

VERBIN, D.S., inzh.; SHEPIL'EVSKIY, V.M., inzh.

Automatic welding of the diaphragms of steam turbines in
a carbon dioxide medium at Leningrad Metalworking Plant.
Energomashinostroenie 6 no.7:29-31 J1 '60.

(MIRA 13:7)

(Leningrad--Steam turbines)
(Gas welding and cutting)

2838 Shepilo, I. N.

Vliyaniye polovykh i shitovidnykh zhelez na sekrogoruyu deyatel'nost'
zheludka (pavlovskiy zheludochek) v usloviyakh ikh vzaimodeystviya. Rostov
n/D, 1954. 16 s. 20 sm. (rost. gos. un-t im. V. m. Molotova). 106 Ekz. B.
ts. - (54-58780)

SHEPILOV, A.Ya.

Servicing electric locomotives with shift teams. Blok.i
tepl.tiaga 4 no.1:18-19 Ja '60. (MIRA 13:4)

1. Glavnyy inzhener lokomotivnogo depo Moskva III.
(Electric locomotives--Maintenance and repair)

SHEPILOV, D. T.

Shepilov, D. T. Stalinskiy ustav sel'skokhozyaystvennoy arteli-osnovnoy zakon kolhoznogo stroya. Moskva, Vsesoyuznoye lektsionnoye byuro pri ministerstve vysshego obrazovaniya SSSR, 1946. 23 p. (Stalin regulation on agricultural artels - the basic law of kolkhoz structure.)

SHCHILOV, D. T., LEONT'YEV, L. A., LAFTEV, I. D., KUZ'MINOV, I. I., GATOVSKIY, L. M.
and OSTROVITYANOV, K. V.

"Political Economy," textbook, State Publishing House of Political
Literature, Moscow, 1954.

SHEPILOV, D

EPP
.R92132

PECHAT'V BOR'BE ZA DAL' NEYSHY POD" YEM SEL'SKOGO KHOZYAYSTVA. MOSKVA,
GOSPOLITIZDAT, 1954.

63 P. (V POMOSH' RABOTNIKAM PECHATI)

BIBLIOGRAPHICAL FOOTNOTES.

RUSSIA

CHERNOM, ENRIKH^V TROFIMOVICH

EPP
.R93360

7= Dal'neyshiy Rastsvet Sovetskogo Khudozhestvennogo Tvorchestva (For the
Further Development of the Soviet Arctic) Moskva, Gospolitizdat, 1957.
31 P.

SHEPILOV, D

T

EPP

.R93258

Tvorit' Dlya Blaga I Schast'ya Naroda (To Create for the Welfare and Happiness of the People) Moskva, Gospolitizdat, 1957.

35 p.

SHEPILOV, DMITRI TROFIMOVICH

N/5
122.1
.85

Voprosy Mezhdunarodnogo polozheniya i vneshney politiki Sovetskogo Soyuza
(Problems of the International Situation and Foreign Policy of the Soviet
Union) Moskva, Gospolitizdat, 1957.
45 p.

122.1 N/5
114.48 N/5

MEA

SHENILOV, G. T.

SHENILOV, G. T.- "Investigation of the Process of Grinding Gear Teeth on Machines Having an Arched Run-in Mechanism and Operating with a Disk Circle." Min of Higher Education USSR, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, Moscow, 1955 (Dissertations for Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

L 31364-66 EWP(j)/EWT(m) IJP(c) RM

ACC NR: AP6021104

SOURCE CODE: UR/0062/66/000/002/0384/0384

AUTHOR: Gubin, S. P.; Shepilov, I. P.; Nesmeyanov, A. N.

61
B

ORG: Institute of Organoelemental Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy)

TITLE: Acetylation of ferrocene by the complex $2CH_3COOH \cdot BF_3$ sub 3

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 384

TOPIC TAGS: ferrocene, acetylene compound, reaction rate, activation energy, spectrophotometric analysis, catalysis, chemical reaction kinetics

ABSTRACT: The authors determined rates of acetylation of ferrocene by the complex $2CH_3COOH \cdot BF_3$ in glacial acetic acid under pseudo-first order conditions. The reaction was arrested by pouring the sample (1 ml) into 20 ml of absolute ethanol. The ferrocene and acetylferrocene concentrations in the solution were determined spectrophotometrically at 337 millimicrons on the SF-4A unit. The apparent energy of activation is 22.4 kcal/mole. When the catalyst concentration is increased, the reaction rate rises. The data obtained shows that ferrocene is 200-300 times more active than anisole in the acetylation reaction. [JPRS]

SUB CODE: 07 / SUBM DATE: 17Nov65 / OTH REF: 001

Card 1/1 CC

UDC: 542.957 + 546.72 + 66.095.11

KHRIPUNOV, A.M., inzh.; SHESTAKOV, A.D., inzh.; SHEPILOV, M.Ye., inzh.

Our method to secure an accurate performance of the regenerative braking circuit of the VL8 electric locomotive; from the practices of the Zlatoust Depot of the Southern Urals Railroad. Elek. i tepl.tiaga no.8:13-16 Ag '63. (MIRA 16:9)

1. Depo Zlatoust Yuzhno-Ural'skoy dorogi.
(Electric locomotives--Brakes)

SHUTSKAYA, Ye.I., kand. med. nauk; Primalni uchastiye: RABINOVICH,
S.Ye., prof.; SLEPTSOVA, A.I., vrach; LIVEN, K.I., vrach;
SOKOLOVA, R.I., vrach; PEREL'MAN, R.M., vrach; AL'TMAN, I.M.,
vrach; SHEPILOV, N.S., kand. veterin. nauk; SVIRIDOV, A.A.

Epidemiological importance of tuberculosis in cattle.
Veterinariia 40 no.10:19-20 0'63. (MIRA 17:5)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza
(all except Shepilov, Sviridov).

GOLUBCHENKO, Aleksandr Ivanovich; EPEL'MAN, Tovi Yevseyevich;
Prinimal uchastiye SHEPILOV, V.A.; KURZON, A.G., retsenzeng;
MIRYUSHCHENKO, A.A., retsenzent; SHAURAK, Ye.N., red.; VASIL'YE,
L.G., nauchnyy red.; KOROVENKO, Yu.N., tekhn. red.

[Marine power plants] Sudovye silovye ustanovki. Leningrad,
Sudpromgiz, 1962. 512 p. (MIRA 15:10)
(Boilers, Marine) (Marine engines) (Marine turbines)

ZHILIN, G., laureat Stalinskoy premii; SHEPILOV, V., inzhener

Measures for increasing fire tube service in L locomotives. Tekh.
zhel.dor.7 no.7:10-12 J1'48. (MLRA 8:11)

(Locomotive--Boilers)

SHEPILOV, V.

Zhilin, G. and Shepilov, V. "Utilization and improvement of series L locomotives,"
Zh.-d. transport, 1948, No. 12, pp. 35-42

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

UVAROV, V.V., prof., doktor tekhn.nauk; LEBEDYANSKIY, L.S., konstruktor;
OMIROV, V.S., inzh.; CHERNOBROVKIN, A.P., kand.tekhn.nauk, dots.;
SHARGOVSKIY, R.I., inzh.; SHEPILOV, V.P., inzh.

The 6,000 hp. gas turbine locomotive constructed by the Kolomna
Plant. Izv.vys.ucheb.zav.; mashinostr. no.6:104-108 '58.
(MIRA 12:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana
i Kolomenskiy teplovozostroitel'nyy zavod im. Kuybysheva.
(Gas turbine locomotives)

SHEPILOVA, I.A.
SHEPILOVA, I.A., ordinator

Clinical aspects of nervous system affections in carbon monoxide poisoning. Sbor.trud.Tashk.KBNP no.1:152-156 '56 (MIRA 11:3)
(NERVOUS SYSTEM--DISEASES) (CARBON MONOXIDE--TOXICOLOGY)

SHEPIN, A.A.

Pollution of air by carbon monoxide and dust at the sites of blast
furnace plants. Vod. i san. tekhn. no.10:13-17 O '60. (MIRA 13:11)
(Air--Pollution) (Blast furnaces)

SHEPKALOVA, V.M.

Congenital melanosis of the eye. Vest.oft. 70 no.5:29-37
S-O '57. (MIRA 12:6)

1. Moskovskaya glaznaya klinicheskaya bol'nitsa (nauchnyy
rukovoditel' - prof. M.L.Krasnov).

(MELANOSIS

congen. of eye)

(EYE, abnorm.

congen. melanosis)

ZIYANGIROVA, G.G.; SHEPKALOVA, V.M. (Moskva)

"Chronic hyperplasia of the connective tissue" [in German] by
Rasheff. Reviewed by G.G. Ziyangirova, V.M. Shepkalova. Vest. oft.
72 no. 5:61 S-O '59. (MIRA 13:3)
(CONJUNCTIVA--DISEASES) (RASHEFF)

AGAPOV, Yu. Ya, Primal uchastiye SHUVALOV, V.K.; SHEPKIN, I.G., red.;
PRONINA, N.D., tekhn. red.

[Collection of tables on gas exchange] Sbornik tablits po gazo-
obmenu. Moskva, Medgiz, 1963. 79 p. (MIRA 16:3)
(RESPIRATION) (BASAL METABOLISM)

MIKHAYLOV, A.N., kand.med.nauk; SHEPKOVSKAYA, Ye.V., dotsent [deceased]

Effect of nervous system stimulants (caffeine, strychnine) and
nicotinic acid on the course of gonococcal septicemia in mice.
Vest.derm. i ven. 38 no.5:64-68 My '64.

(MIRA 18:12)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskii
institut (dir. - dotsent A.I.Pyatikop). Submitted Febr. 25,
1963.

INT (V)/T-1/ENF(R)/EWA(h) 25-4/Feb

UR/0029/65/000/004/0024/0025

WITH: Mergulov, A. (Candidate of technical sciences) (Kuybyshev): 26
Mergulov, V. (Engineer) (Kuybyshev) 3

Subject: The 'Vikhr' is ready for flight [Newly designed Soviet one-man helicopter]

SOURCE: Tekhnika - molodazhi, no. 4, 1965, 24-25

TOPIC TAGS: helicopter, one man helicopter, helicopter design, ramjet driven helicopter, helicopter rotor bushing, helicopter rotor assembly, rotor root

ABSTRACT: An independent helicopter-design bureau at the Kuybyshev Aviation Institute has designed a light one-man helicopter, the 'Vikhr', which is now ready for stand tests. The 'Vikhr' is equipped with rotor-end-mounted ramjets weighing 1.2 kg, developing 25 hp, and operating on kerosene. A 30—40 m/sec rotor peripheral velocity is necessary to start the ramjets. The length of each duraluminum rotor is 3 m, with a width of 140 mm. The tricycle landing gear's two rear wheels are equipped with shock absorbers and its front wheel is self-orienting.

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L 43005-65

ACCESSION NR: AP5011480

The gas tank is under the seat and the throttle control is on the pilot's left. The helicopter's flight weight is 190 kg (pilot - 80 kg, fuel - 50 kg, and helicopter - 60 kg). The dynamic ceiling is 9000 m and the static ceiling is 5000 m. The Vikhr' flies at up to 100 km/hr and has a flight duration of 1 hr. The article stresses that an "autodynamic bushing" is used which provides for the hinged connection of the two rotors wherein the hinge's axis is 45° to the rotor axis. This "bushing" provides an automatic transition to a floating descent in the event of engine failure or shutdown. The article contains several detailed engineering drawings of the "bushing," rotor assembly, and rotor-blade cross sections. Orig. art. has: 5 figures. [LB]

ASSOCIATION: none.

SUBMITTED: 00

ENCL: 00

SUB CODE: AC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3238

me
Card 2/2

SHEPOTINOVSKIY, V.I.

Operation of a blood transfusion department in a district hospital.
Probl.gemat.i perel.krovi no.6:57-59 '61. (MIRA 14:10)

1. Iz Belokalitvenskoy rayonnoy bol'nitsy (glavnyy vrach O.Ye.
Chernetskiy) Rostovskoy oblasti.
(BLOOD--TRANSFUSION) (HOSPITALS)

SHEPOTINOVSKIY, V.I.

Some problems in the organization of blood service in a rural district.
Zdrav. Ros. Feder. 5 no.1:29-31 Ja '61. (MIRA 14:1)

1. Iz Belokalitvenskoy rayonnoy bol'nitsy (glavnyy vrach O.Ye.
Chernetskiy) Rostovskoy oblasti.
(BLOOD—COLLECTION AND PRESERVATION)

CHERNETSKIY, O. Ye.; SHEPOTINOVSKIY, V. I.; MILOVANова, A. Kh.

Our experience in providing drugs without a prescription to
patients of a polyclinic. Zdrav. Ros. Feder. 6 no.6:23-25
Je '62. (MIRA 15:7)

1. Belokalitvenskaya rayonnaya bol'nitsa (glavnyy vrach O. E.
Chernetskiy) Rostovskoy oblasti.

(HOSPITAL PHARMACIES)

SHEPOTINOVSKIY, V.I.

Nurses' councils. Med. sestra 21 no.5:63-64 My '62. (MIRA 15:5)

1. Zamestitel' glavnogo vracha rayonnoy bol'nitsy, Belaya Kalitva
Rostovskoy oblasti.

(NURSES AND NURSING)

SHEPOTINOVSKIY, V.I. (Belaya Kalitva, Rostovskoy oblasti, Sportivnaya ul.d.8)

Blood transfusion according to data from the surgical ward of
a district hospital. Vest.khir. 89 no.9:114-116 S '62.
(MIRA 15:12)

1. Iz Belc-Kalitvenskoy rayonnoy bol'nitsy Rostovskoy oblasti
(glavnyy vrach - O.Ye.Chernetskiy).
(BLOOD—TRANSFUSION)

SHEPOTINOVSKIY, V.I.

Role of subprofessional medical personnel in the prevention
of complications in blood transfusion. Med. sestra 22 no.10:
50-52 0'63 (MIRA 16:12)

1. Zaveduyushchiy otdeleniyem perelivaniya krovi Belo-Kalit-
vinskoy rayonnoy bol'nitsy Rostovskoy oblasti.

SHEPOTINOVSKIY, V.I.

Analysis of reactions following blood transfusion based
on data of a district hospital. Sov. med. 26 no.4:101-104
Ap '63. (MIRA 17:2)

1. Iz otdeleniya perelivaniya krovi (zav. V.I. Shepotinovskiy)
rayonnoy bol'nitsy (glavnyy vrach O.Ye. Chernetskiy).

SHEPOTINOVSKIY, V.I.

Use of preserved blood in rural therapeutic institutions.

Probi. gemat. i perel. krovi 9 no.10:54-56 O '64. (MIRA 18:3)

1. Belokalitvenskaya rayonnaya bol'nitsa (glavnyy vrach O.Ye. Chernetskiy).

SHEPOTINOVSKIY, V.I.

Improve blood transfusion service in an enlarged rural district.
Sov. med. 27 no.12:70-72 0 '64. (MIRA 18:11)

1. Belokalitvenskaya rayonnaya bol'nitsa Rostovskoy oblasti.

SHEPOTIROVSKIY, V.I.

Chart for the recording of blood transfusions. Probl. gemat. i
perel. krovi 9 no.6:51-52 Je '64. (MIR' 18:2)

1. Otdeleniye perelivaniya krovi (zav. V.I. Shepotinovskiy)
Belokalitvenekoy gorodskoy bol'nitsy (glavnyy vrach O.Ye.
Chernetskiy) Rostovskoy oblasti.

ORECHKIN, D.; POPOVA, N.; RYKOVA, I.; SHEPOT'KO, O.

First experiments, first discoveries. Pozh.delo 9 no.2:25 F '63.
(MIRA 16:3)

(Fire extinction—Chemical systems)

VESELOV, V.V.; KURAKIN, N.V.; ORECHKIN, D.B.; SHEPOT'KO, O.F.

Small laboratory spray dryer. Masl.-zhir.prom. 24 no.5:33-
34 '58. (MIRA 12:1)

(Drying apparatus)

VESELOV, V.V., ORECHKIN, D.B., POPOVA, N.V., SHEPOT'KO, O.F.

Hydrofining liquid paraffins in order to obtain alkyl-
aryl sulfonates and to prepare raw products for oxidation.
Trudy Vost.-Sib.fl.AN SSSR no.26:135-140 '59. (MIRA 13:6)
(Paraffins) (Sulfonic acids)

ORECHKIN, D.B.; POPOVA, N.V.; FEDOROV, A.P.; SHEPOT'KO, O.F.; SHMUYLOVICH,
M.M.

Oxidation of paraffins in pilot plant units. Khim.i tekhn. topl.i
masel 5 no.7:16-18 J1 '60. (MIRA 13:7)
(Paraffins) (Oxidation)

VESELOV, V.V.; ORECHKIN, D.B.; POPOVA, N.V.; SHEPOT'KO, O.F.

Preparation of liquid paraffins for oxidation, and simultaneous
production of alkyl aryl sulfonates. Khim.i tekhn.topl.i masel
5 no.8:11-15 Ag '60. (MIRA 13:8)
(Paraffins) (Sulfonic acid)

S/080/60/033/04/41/045

AUTHORS: Veselov, V.V., Orechkon, D.B., Shepot'ko, O.F.

TITLE: The Hydrogenation of Methyl Ethers of C₇-C₉ Acids Over a Zinc-Chromium Catalyst

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 4, pp 980 - 983

TEXT: In the production of higher fatty acids from paraffins C₇-C₉ acids are obtained which are not widely used. Hydrogenation of these acids produces the corresponding alcohols which are more valuable. For hydrogenation copper-chromium catalysts with additions of oxides of alkali earth metals are used. In the article a zinc-chromium catalyst is investigated which is considerably stabler than a copper-chromium catalyst. The optimum conditions for the hydrogenation of the methyl ethers of C₇-C₉ acids over a zinc chromium catalyst are a pressure of 300 atm, a temperature of 300°C, a volume flow rate of H relative to raw material of 0.4 - 1.2 and a hydrogen consumption of 1,900 l per 1 liter of raw material and hour. At 300°C the catalyst shows a good

Card 1/2

s/080/60/033/04/41/045

The Hydrogenation of Methyl Ethers of C_7-C_9 Acids Over a Zinc-Chromium Catalyst

selectivity. The catalyst operated for 655 hours without decrease of activity. Its use in the hydrogenation of methyl ethers of C_7-C_9 acids is recommended. There are: 2 tables and 11 references, 10 of which are Soviet and 1 English.

SUBMITTED: August 17, 1959

Card 2/2

ORECHKIN, D.B., kand. tekhn. nauk; POPOVA, N.V., inzh.; SHEPOT'KO, O.F.,
inzh.; Prinsipali uchastiye: MIKHAYLOVA, K.V., RYKOVA, I.S.

Effect of alkylolamide admixtures on the properties of alkyl
aryl sulfonates. Masl.-zhir. prom. 28 no.10:27-28 0 '62.
(MIRA 16:12)

ORECHKIN, D.B. (Angarsk); POPOVA, N.V. (Angarsk); SHEPOT'KO, O.F. (Angarsk);
Prinimali uchastiye: MUSHTA, O.V.; PASHNINA, Ye.T.

Chromatographic determination of the hydrocarbon content of alcohols
produced by the hydrogenation of sperm whale oil. Izv. Sib. otd. AN
SSSR no. 11:66-69 '62. (MIRA 17:9)

ORECHKIN, D.B.; POPOVA, N.V.; SOBOLEVA, Z.A.; SHEPOT'KO, O.F.

Hydrogenation of sperm whale oil over a fixed catalyst to produce higher
alcohols. Zhur.prikl.khim. 35 no.11:2504-2508 N '62. (MIRA 15:12)
(Whale oil) (Hydrogenation) (Alcohols)

TOVBIN, I.M., inzh.; PETROV, N.A., kand. tekhn. nauk; MAYOROV, D.M.,
kand. khim. nauk; STERLIN, B.Ya., kand. tekhn. nauk; NEVOLIN, F.V.;
VARLAMOV, V.S., kand. tekhn. nauk; CHERKAYEV, V.G., kand. khim.
nauk; BLIZNYAK, N.V., inzh.; ORECHKIN, D.B., kand. tekhn. nauk;
RADCHENKO, Ye.D., inzh.; SHEPOT'KO, O.F., inzh.

Obtaining higher unsaturated alcohols by the method of selective
hydrogenation of whale oil. Masl.-zhir. prom. 29 no.3:18-21
Mr '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftakhimi-
cheskikh protsessov (for Mayorov). 2. Vsesoyuznyy nauchno-
issledovatel'skiy institut zhirov (for Sterlin, Nevolin,
Varlamov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut
sinteticheskikh i natural'nykh dushistykh veshchestv (for
Orechkin, Radchenko, Shepot'ko).
(Whale oil) (Alcohols)

ORECHKIN, D.B.; POPOVA, N.V.; RYKOVA, I.S.; SHEPOTKO, O.F.;
Prinimala uchastiye MIKHAYLOVA, N.V.

Sulfonation of a hydrofined oil fraction in order to remove
aromatic compounds. Nefteper. i neftekhim. no. 4:34-35 '64.
(MIRA 17:5)

ORECHKIN, D.B.; GARSHINA, V.V.; POPOVA, N.V.; SHEPOT'KO, O.F.

Hydration of the methyl esters of the fatty acids of cottonseed
oil. Nefteper. i neftekhim. no.7:32-34 '64. (MIRA 17:11)

ORECHKIN, D.D.; IOKOVA, N.V.; SHILOVA, O.F.; Principal assistant: MISHA, O.V.;
MIRNAYLOVA, N.V.

Chromatographic method for determining the content of hydrocarbons
in technical mixtures of higher fatty amines. Neftoper. i neftekhim.
no.10:30-32 1964. (MIRA 17:12)

MAYNEV, D.M.; BLANDIN, Yu.V.; GORODKIN, D.B.; SHEPOT'KO, O.P.;
KALASHNIKOVA, E.I.

Preparation of large specimens of technical lauryl and stearyl
alcohols from fatty raw materials. Zhur. prikl. khim. 37 no.8:
1811-1816 Ag 1964. (MIRA 17:11)

KOSYAKIN, A.R.; FLOROV, I.F.; SHEPOTKOV, I.V.

Increasing the energy content of hydrocarbon fuels. Khim. i
tekh. topl. i masel 7 no.10:66-68 0:62 (MIRA 1:7:7)

SHEPOVAL'NIKOV, N.P.

(Nikolay Petrovich)

[Physiology of intestinal juice] Fiziologiya kishechnogo soka.
Moskva, Izd-vo Akademii meditsinskikh nauk SSSR, 1953. 138 p.
(MLRA 7:3)

(Intestines) (Secretion)

SHEPOVALOV, S.T.; SOKAL'SKIY, A.M.; MASLOV, T.M., veterinarnyy vrach

Case of enzootia of malignant catarrhal fever in cattle.

Veterinariia 36 no.9:37-38 S '59. (MIRA 12:12)

1. Nachal'nik veterinarnogo otdela Ternopol'skogo obl'sel'khozupravleniya
(for Shepovalev). 2. Glavnyy veterinarnyy vrach Trembovlyanskogo rayona
(for Sokal'skiy).

(Cattle--Diseases and pests)

SHEPOVALOV, Timofey Ivanovich

[Along rivers and lakes near Moscow] Po rekam i ozeram
Podmoskov'ia; peshkhodnye turistatskie marshruty. Moskva,
Mosk.rabochii, 1960. 486 p. (MIRA 14:2)
(Moscow Province--Description and travel)

BURYKH, Ye.B.; KOLOBOV, V.M.; SKOTNIKOV, Yu.A.; TIKHONOVICH, S.S.;
SHKPOVALOV, T.I.; KONOVALOVA, K.A., redaktor; RODIONOV, Yu.,
redaktor; LIL'IN, A., tekhnicheskii redaktor

[Memorable places in Moscow Province] Pamiatnye mesta Moskovskoi
oblasti; kratkii putevoditel'. Izd. 2-e, dop. i perer. Sost. E.B.
Burykh i dr. [Moskva] Moskovskii rabochii, 1956. 606 p. (MLRA 9:7)

1. Moscow. Oblastnoy krayevedcheskiy muzey. 2. Zamestitel' pred-
sedatelya Moskovskogo oblastnogo obshchestva krayevedeniya (for
Konovalova)

(Moscow Province--Historic houses, etc.)

BURYKH, Ye.B.; D'YAKONOV, M.V.; KOLOBOVA, M.I. [deceased]; KOLOBOV, V.M.;
KONOVALOVA, K.A.; POPEDEYKIN, V.I.; SKOTNIKOV, Yu.A.; TIKHONOVICH,
S.S.; SHEPOVALOV, T.I. Prinimali uchastiye YUN'YEVA, N.P.;
POLYAK, Ye.V.; SULTANOVA, N., red.; YAKOVLEVA, Ye., tekhn.red.

[Memorable places in Moscow Province; a concise guidebook] Pa-
miatnye mesta Moskovskoi oblasti; kratkii putevoditel'. Izd.3.,
dop. i perer. Sost.E.B.Burykh i dr. Moskva, Mosk.rabochii, 1960.
734 p. (MIRA 14:2)

1. Moscow. Oblastnoy krayevedcheskiy muzey. 2. Zamestitel' predse-
datelya Moskovskogo oblastnogo obshchestva krayevedeniya (for
Konovalova).

(Moscow Province--Guidebooks)

SHEPOVALOV, V.

Corn helped us to obtain a two-year supply of feed. Nauka i pered.
op. v sel'khoz. 8 no.11:12-14 N '58. (MIRA 11:12)

1. Nachal'nik rayonnoy inspektsii po sel'skomu khozyaystvu, Glushkov-
skiy rayon, Kurskoy oblasti.
(Corn (Maize))

SHEPOVALOV, V.D.; PUZANKOV, A.G.

Optimization of the process of separating grain mixtures on sieves.
Trakt. i sel'khoz mash. no.3:17-20 Mr '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-
nogo mashinostroyeniya (for Shepvalov). 2. MIISP (for Puzankov).

YUGO.

Infrared absorption spectra and the hydrogen bonding of some chelated hydroxy quinones. D. Hadji and N. Šenčard (Inst. Borisa Kidriča, Ljubljana, Yugoslavia). Žurnal Fizikalne Soc. 50, 811-18 (1954).—The spectra were recorded with a Perkin-Elmer 21 double-beam spectrophotometer,

equipped with rock salt and LiF prisms. The hydroxy-quinone absorption bands were: $\nu(\text{OH})$, about 2900 (broad and strong); $\delta(\text{OH})$ (in-plane) + $\nu(\text{C}-\text{O})$, 1250 ± 70 (two bands, strong); $\delta'(\text{OH})$ (in-plane), 1150 ± 10 (medium); $\nu(\text{OH})$ (out-of-plane), $770 \pm 30 \text{ cm}^{-1}$ (broad and strong). The D derivs. had the corresponding frequencies: $\nu(\text{OH})$, about 2250; $\nu(\text{C}-\text{O})$, 1265 ± 20 ; $\delta, \delta'(\text{OD})$, 980 ± 40 and $830 \pm 10 \text{ cm}^{-1}$. Data were reported for the 1-OH-, 1,4-(HO)-, 1,5-(HO)-, 1,4,5,8-(HO)-, 1,4-(DO)-, 1,5-(DO)-, 1,4,5,8-(DO)- derivs. of anthraquinone; also for 6,8-dehydroxynaphthaquinone. The OH frequencies near 2900 cm^{-1} showed that H bonding in these 6-membered chelated rings was stronger than usual. Nevertheless, the H atom remained covalently bonded to an O atom.

Victor R. Deits

Smw
RM

SHEPPARD, N.

Study of molecular structure b y infrared and Raman spectroscopy. p. 221

Vol. 20, no. 4, 1955

SCURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

SHEPPEL', P.A., inzh.

Use of a mechanized hydraulic method in grading land in the leveed sections of the Volga-Akhtuba Flood Plain. Gidr. i mel. 12 no.8:22-26 Ag '60. (MIRA 13:8)

1. Stalingradskaya opytno-meliorativnaya stantsiya.
(Volga-Akhtuba Flood Plain--Earthwork)
(Hydraulic engineering)

SHEPS, N.; MASLYANKO, M.; SHAYNSHEYN, A.

The sheepskin is worth processing. Prom. koop. 12 no.1:28-29 Ja '58.
(MIRA 11:1)

1. Starshiy inzhener Odesskogo oblpromsoveta (for Sheps).
2. Predsedatel' pravleniya arteli "Mekhinprom," Odessa (for Maslyanko).
3. Tekhnoruk arteli "Mekhinprom," Odessa (for Shaynsheyn).
(Odessa—Hides and skins)

SHETS, N. F.

Vlasov, I.I., Kanayev, A.F. and Sheps, N.F. "Extended storage of fresh tomatoes," Sbornik nauch. rabot (Nauch.-issled. in-t trgovli i obshchestv. pitaniya), Moscow, 1949, p. 137-43, - Bibliog: 8 items

SO: U-5241, 17 December 1953, (Letopis 'zhurnal 'nykh Statey No. 26, 1949).

New methods on storing potatoes, vegetables, apples and sauerkraut. Moskva, Gos.
izd-vo tekhnicheskoy literatury, 1954. 82 p.

SHEPS, S. (g. Velikiye Luki).

More control of interference. Radio no.10:52 '56.

(Radio--Interference)

PHASE X

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 765 - X

BOOK

Call No.: AF651040

Author: SHEPSENVOL, A. I.

Full Title: CUTTING TOOLS IN THE MANUFACTURING OF INSTRUMENTS AND APPARATUS

Transliterated Title: Rezhushchiy instrument v priborostroyeni

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry (Oborongiz)

Date: 1954

No. of pp.: 424

No. of copies:

Editorial Staff

Editor - Futoryan, S. B.

PURPOSE AND EVALUATION: Written as a text-book for students in technical colleges who specialize in the design of instruments and apparatus, this book may also serve as a manual for engineers, and designers of precision-type machinery. This book seems to present the required theoretical principles and mathematical justification for the design of specific cutting tools used in making certain smaller precision-type instruments and apparatuses. The comprehensive course presented on the subject may favorably be compared with such books as: Design and Use of Cutting Tools, by Leo J. St. Clair (1952), Design of Metal-Cutting Tools, by Frederick L. Woodcock (1948), Cutting Tools for Metal Machining, by Max Kurrein (1947), and Cutting Tools for Engineers, by A. Sandy (1946).

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Rezhushchiy instrument v priborostroyeni

AID 765 - X
Pages

Chapter III.	<u>Cutters.</u> Calculations and design of cutters used in lathes, turret lathes, automatic turret lathes; planning and grooving cutters. The KEEK cutters for speed-up grinding; the I. E. Savin and G. A. Breykin cutter; Kolesov cutter for fast-feed cutting; the Biryukov, Dodzin and Pungier cutter; mathematical theories, formulae and graphic illustrations of various cutters and their parts; the Il'yashev, Strizhak and TsNIITMASH cutters for speed-up cutting of metals.	81-166
Chapter IV	<u>Drills.</u> Twist drills, their special characteristics; drills for small-diameter holes; pointed drills; drills for deep drilling; gun and rifle drills; hard-alloy drills for double-sided drilling. Many GOST standards and tables.	167-197
Chapter V.	<u>Countersinks.</u> Counterbores and combination counterbores; countersinks and end-cutting tools.	198-220
Chapter VI.	<u>Reamers.</u> Cylindrical and taper reamers.	221-237
Chapter VII.	<u>Broaches.</u> Cylindrical, quadratic and hexahedral, for progressive broaching, of worm-type and gear-wheel cutting; formulae for strength calculation.	238-273

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Rezhushchiy instrument v priborostroyenii

AID 765 - X

Abrasives and Grinding (VNIILASH), Central Scientific Research Institute of Machine-Building Technology (TsNIITMASH), and scientists such as: Granovskiy, G. I., Sobolev, N. P., Stayev, K. P., and others.

5/5

SHEPSENVOL, A.I., kand. tekhn. nauk, dots.

Effect of gear-wheel cutter design on the tooth shape of machined
low-module gears. Sbor. st. LITMO no. 23:105-111 '57. (MIRA 11:5)
(Gear cutting)

SHEPSENVOL, Aron Isaakovich; BUDINSKIY, A.A., inzh., retsenzent;
DARMANCHEV, S.K., kand. tekhn. nauk, red.; CHFAS, M.A.,
red. izd-va; SHCHETININA, L.V., tekhn. red.

[Auxiliary tools used in the manufacture of instruments]
Vspomogatel'nyi instrument v priborostroenii. Moskva,
Mashgiz, 1962. 179 p. (MIRA 15:9)
(Instrument manufacture) (Machine tools)

5727-54-11-111
USSR .

6
✓ Heat conductivity of aluminum oxide at high temperatures. / A. R. Shul'man, V. N. Fedorov, and M. A. Shep-sen'vol. *Zhur. Tekh. Fiz.* 22, 1271-80 (1952); *Science Abstr.* 48A, 772 (1953). — A method is suggested of detg. heat cond. of ceramic materials at high temps., consisting in comparing results of measurements conducted by 2 methods: that of the shift of specific power characteristics and the probe method. In the first method, differential measurements are made on specimens in which the substance tested forms a tubular layer around a W filament through which current is passed. In the 2nd, a thin W filament is wound around the specimen and coated with a thin layer of the tested material; this thin W filament serves as resistance thermometer.

BB
R. D. H.
M 32

112-57-8-17300

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8,
pp 200-201 (USSR)

AUTHOR: Shepsen'vol, M. A., and Grekhov, M. A.

TITLE: An Instrument for Measuring Static Transconductance of Receiving and
Amplifying Tubes (Pribor dlya izmereniya staticheskoy krutizny priyemno-
usilitel'nykh lamp)

PERIODICAL: Obmen opytom, M-vo radiotekhn. prom-sti SSSR (Experience
Exchange. Ministry of the Radio-Engineering Industry, USSR), 1955,
Nr 8-9, pp 68-69

ABSTRACT: Instruments used for measuring static transconductance of electron
tubes have a number of disadvantages: sensitivity to power-supply noise,
dependence of measurement on the wave-shape of the supply voltage, etc.
A circuit diagram is presented of a device practically free from all
these disadvantages. The circuit is based on the stabilization of volt-
age directly at the anode of the tube being tested, which insures strictly
static measurement conditions. The grid driving voltage for the tube is
derived from a stabilized 1,000-cps oscillator. The measuring section of

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9 (3)

SOV/112-57-5-10994

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5,
pp 207-208 (USSR)

AUTHOR: Bliskunov, N. A., Shepsenvol, M. A.

TITLE: Methods and Results of Measuring Small Ionic Currents in Ready-Made
Tubes (Metody i resul'taty izmereniya malykh ionnykh tokov v gotovykh
lampakh)

PERIODICAL: Tr. n.-i. in-ta, M-vo radiotekhn. prom-sti SSSR, 1956,
Nr 1(29), pp 51-60

ABSTRACT: A common disadvantage of the existing methods of ionic-current
measurements is that it is impossible to separate leakage currents from
thermal emission of the grid. To evaluate quality and to control processing
of oxide-coated-cathode tubes, a method is suggested for determining small
ionic currents based on conversion of those currents into alternating current
(Herold, W., R.C.A. Rev., 1949, Vol 9, Nr 8). This method permits

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SOV/112-57-5-10994

Methods and Results of Measuring Small Ionic Currents in Ready-Made Tubes

ion current appears in the anode (ion collector) circuit; this current consists of DC and AC components. Alternating components of the electron and ion currents in the anode and second-grid circuits having the same frequency (50 cps) can be measured by a vacuum-tube voltmeter. Three lots of TV type 6P9 pentodes were tested to verify the outfit operation. It was found that pressure in the tube drops within the first 16-24 hours, after which an equilibrium is established between the processes of gas liberation and absorption, and the pressure remains practically constant. During this period, the vacuum factor K varies according to an exponential law and approaches a constant value, this value being different for different tube lots that may differ in their final residual pressure. The association has been found between the value of K and the variation of cathode emissivity during the cathode service. Thus, if the value of K changes within 7×10^{-6} to 7×10^{-7} within the first 24 hours, the tube service life is about 1,400 hours, and if K varies within $(6-1) \times 10^{-7}$ and

Card 3/4

Shepsenvol, M A.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12276

Author : Shepsenvol, M.A., Bliskunov, N.A.

Inst : -
Title : Measurement of the Resistance of the Intermediate Layer
of an Oxide Cathode.

Orig Pub : Tr. N.-. in-ta, M-vo radiotekhn. prom-sti SSSR, 1956, vyp.
2-3 (30-31), 65-70

Abstract : Description of the method and report of results of measuring the resistance of the intermediate layer of an oxide cathode from the value of the transconductance of the cube at two frequencies (50 kc and 30 cycles). In addition, at frequencies of 50 kc, one cycle, and 30 cycles, a measurement is made of the capacitance of the intermediate layer. The setup is built in the form of a stand, its operation and the treatment of the measurement results are simple, and insure good reproducibility. The average error of the

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Card 2/2

. SHEPSANOV, M. A.

SOV/57-23-7-19/35

AUTHORS: Frenkel', V. Ya., Shepsanov, M. A.

TITLE: Equitemperature Cathode With Direct Heating, and a Method of Its Calculation (Ekvitemperaturnyy pryamonakal'nyy katod i metodika yego rascheta)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Vol. 28, Nr 7, pp.1477-1488 (USSR)

ABSTRACT: The construction of a short cathode with a direct channel and a cross section stepwise changing with length (compound cathode) is discussed. Such a construction secures the maintenance of an equitemperature-(i.e. equi-emission-)-range of the demanded length at the short cathode and it decreases the maximum working temperature in the case of a given rated emission current. Thus the life of the cathode is prolonged. The life is determined by the evaporation of the material used for the cathode which process depends to a great extent on the temperature. The uniform distribution of emission current across the length of the short compound cathode also determines a uniform load of the anode. However, in the case

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